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BOOKS AND PERIODICALS.

Elementary Mensuration. By F. H. Stevens, M. A., Formerly Scholar of Queen's College, Oxford; A Master of the Military Side, Clifton College. 12mo. cloth, 243 pp. Price, 90 cents, net. New York: Macmillan & Co.

This text-book of Elementary Mensuration is divided into two parts. The first part provides for those students whose knowledge of Geometry is confined to Euclid's First Book, and Algebra to the meaning of the simplest symbols. In the second part more difficult questions are offered to students who have mastered the Sixth Book of Euclid, have attained some facility in ordinary Algebraical methods as far as the Binomial Theorem and have made a beginning with Trigonometry.

Under each rule is given an illustrative solution neatly worked out, and proofs of formulæ have been given or indicated whenever they seemed likely to be intelligent to the learner. The book is in every way worthy of the consideration of teachers who are needing a good elementary text on Mensuration.

B. F. F.

Problems in Differential Calculus Supplementary to a Treatise on Differential Calculus. By W. E. Byerly, Ph. D., Professor of Mathematics in Harvard University. 8vo. cloth. viii and 72 pp. Price, 80 cents. Boston and Chicago: Ginn & Co.

An excellent collection of about 350 problems to supplement the author's Treatise on the Differential Calculus. While these problems were especially prepared to use in connection with Dr. Byerly's Calculus they will be found useful wherever the subject is studied.

B. F. F.

Computation Rules and Logarithms with Tables for other Useful Functions. By Silas W. Holman, Professor of Physics at the Massachusetts Institute of Technology. 8vo. cloth, 73 pp. Price, \$1.00, net. New York: Macmillan & Co.

Besides a Table of Five Place Logarithms containing an abbreviated Table for One and Two Place Numbers, a table for five place numbers from 1.0 to 1.1, avoiding interpolation, a table for all four place numbers with interpolation tables for the fifth place; a table of logarithms of sines, cosines, tangents, and cotangents to four places; and a table of logarithms of sines, cosines, tangents, and cotangents to five places; there is also a four place logarithm table of numbers from 1 to 10; a table of square roots and squares of numbers from 1 to 100; a table of reciprocals of numbers from 1 to 1000; a table of slide wire ratios; a table of natural sines, cosines, tangents, and cotangents, and a number of tables of mathematical constants.

A very useful book for the practical computor.

B. F. F.

Algebra for Schools and Colleges. By William Freeland, A. B., Head Master of the Harvard School, New York City. 8vo. cloth, 310 pp. Introduction Price, \$1.12. New York: Longmans, Green & Co.

With the exception of two or three instances, the author sets no claim to originality. The book is designed to meet the requirements of those students who present themselves for the maximum courses in Freshman work for students who have advanced through the subject of Quadratics only.

Throughout the course tests for revision have been inserted, and a collection of 500 carefully graded Miscellaneous Examples has been given at the end of the book. The number of examples in the book is 5,200. It is very neatly printed on a good quality of paper.

B. F. F.

A Primer of the History of Mathematics. By W. W. Rouse Ball, Fellow and Tutor of Trinity College, Cambridge, England. 12mo. cloth, 162 pp. Price, 65 cents. New York : Macmillan & Co.

This most charming little book ought to be used in all Algebra and Geometry classes in order to awaken early an interest in the History of Mathematics. A few years ago, I gave a short lecture to a class of about 60 students in Algebra, on the Arabic System of Notation. After the lecture, a young man said to me, "Is it possible that Arithmetic and Algebra have come down to us in their present form by a gradual development. I thought they were always as they are now." Were some such work as Mr. Ball's Primer used in our classes in Algebra and Geometry, such dense ignorance concerning one of the greatest departments of human knowledge would not exist. No one having then studied Arthemetic would suppose that the subject sprung from the human mind as perfect as Minerva from the head of Jupiter.

B. F. F.

The Elements of Physics. A College Text Book. By Edward L. Nichols and William S. Franklin. In three volumes. Vol. I. Mechanics and Heat. 8vo. cloth, 228 pp. Price, \$1.50. New York : Macmillan & Co.

In this valuable treatise on Physics, the authors have not attempted to lift the student over difficulties and set him down in easy places. The work, it appears, is written with a view of giving the student the best possible advantage of the subject. The authors have squarely faced the difficulties of the subject and have, as occasion demanded, used the Calculus rather than encounter a subject by long, laborious and indirect methods avoiding the use of the Calculus. However, the degree of mathematical experience of the undergraduate reader has been kept in view and the various proofs and demonstrations have been given the simplest possible form. The concepts of directed and distributed quantity are briefly treated in Chapter II of Vol. I.

From what we know of the first volume we believe that this Treatise will prove to be the best that has yet appeared in this country.

B. F. F.

The Basis. A Monthly Magazine. Devoted to Good Citizenship. Edited by Judge Albion W. Tourgee, Mayville, New York. Price, \$1.50 per year.

The Basis for January is a pleasant surprise in its new cover. The leading editorial denounces the retirement of the greenback as an "Epoch-Making Crime." In "A Bystander's Notes", Judge Tourgee treats especially the lack of earnest effort on the part of the colored race for the betterment of their condition. The Mob-Record, the Department of Good Government Clubs and "Today's Thought" are well in evidence. There is a good short story and other characteristic matter. The number speaks well of the new management of *The Basis* and its new home on the Chautauqua Hills.

The Review of Reviews. An International Illustrated Monthly Magazine. Edited by Albert Shaw. Price, \$2.50 per year. Single number, 25 cents. The Review of Reviews Co., New York City.

The *Review of Reviews* for February contains an article which, in the compass of two pages, makes perhaps the most telling and effective exposure of the recent Turkish massacres that has yet been attempted in the English language. The article is based upon full accounts of the massacres, written on the ground by trustworthy and intelligent persons—French, English, American, Turk, Kurd, and Armenian—who were eye-witnesses of the terrible scenes. The article estimates the number of killed in the massacres thus far at 50,000, the property destroyed at \$40,000,000, and the number of starving survivors at 350,000.

Elements of the Theory of Functions of a Complex Variable with especial reference to the methods of Riemann. By Dr. H. Durege, late Professor in the University of Prague. Authorized translation from the fourth German Edition. By George Egbert Fisher, M. A., Ph. D., Assistant Professor of Mathematics in the University of Pennsylvania, and Isaac J. Schwatt, Ph. D., Instructor in Mathematics in the University of Pennsylvania. Large 8vo. cloth, 288 pp. Price, \$2.50. Philadelphia : G. E. Fisher and I. J. Schwatt.

This valuable work comes to us just in time for notice in this issue of the MONTHLY. From only a cursory examination of it, we do not hesitate to emphasize what was said of it in the last issue. The work will afford a most excellent introduction to the study of the Theory of Functions and the intelligent reading of the larger Treatises—such as Forsyth's.

The mechanical and typographical execution of the book is first class. B. F. F.

The Number Concept. Its Origin and Development. By Levi Leonard Connant, Ph. D., Associate Professor of Mathematics in the Worcester Polytechnic Institute. 8vo. cloth, 218 pp. Price, \$2.00. New York : Macmillan & Co.

This work forms a most valuable addition to the literature of mathematics. The first chapter treats on Counting ; the second, Number System Limits ; the third and fourth, Origin of Number Words ; the fifth, Miscellaneous Number Bases ; the sixth, The Quinary System ; the seventh, The Vigesimal System.

The treatment of these subjects is very interesting and evince careful study and research.

B. F. F.